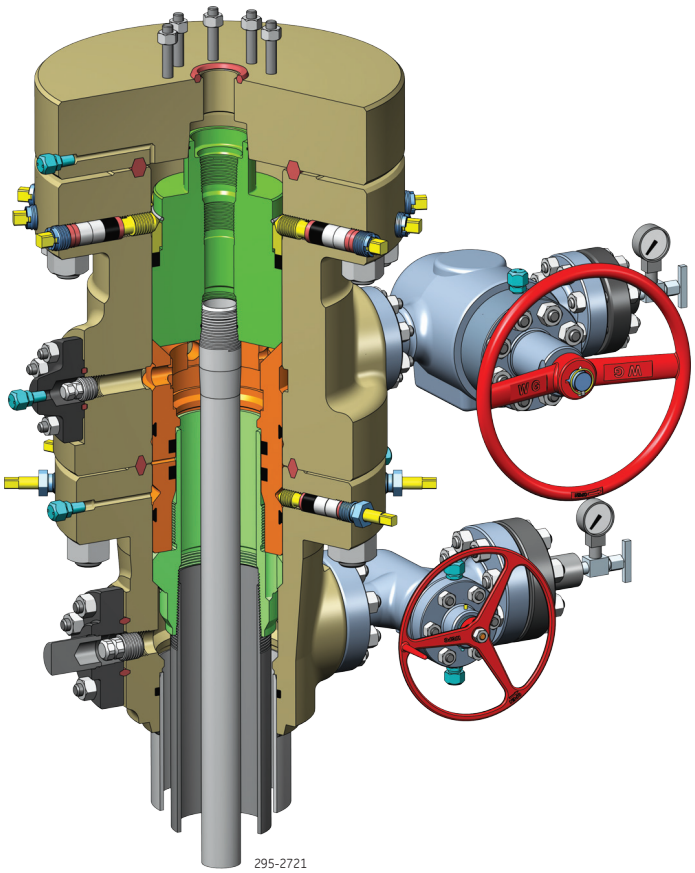
Time-Saving Wellheads

Pressure Control SH2 Split Speedhead™ System

The SH2 Split Speedhead™ System offers significant time-saving and safety-enhancing advantages over conventional wellheads and is compatible with today's advanced drilling methods. The speedhead is a multi-bowl system, supporting and sealing two strings of pipe in a single head. Safety is improved and installation time reduced by running, landing and sealing the two strings without removing the BOP stack. The system will save approximately 17 hours of rig time: 12 hours of BOP manipulation and 5 hours by using a mandrel hanger/packoff rather than a slip hanger. By using a weldless casing connector (Surelok or LRC), an additional 8 hours can be saved.

The difference between a conventional multi-bowl and an SH2 speedhead system is the wellhead housing. The SH2 housing consists of two pieces — a lower housing and an upper housing — installed as one unit. If the intermediate casing becomes stuck, preventing the mandrel hanger from landing in the bowl, then the two housings can be separated. Then the emergency slip-style casing hanger can be easily installed and the casing cut using conventional installation methods.



Features —

- Field-proven
- Increases safety
- Saves installation time
- Reduces BOP/diverter handling
- Flexible system
  - Emergency equipment
  - Alternate casing programs
- Accepts standard completion equipment
- Mandrel hangers rated to joint strength of suspended casing
- Fluted mandrel casing hanger allows cement returns up through BOP stack

Typical Time Savings with SH2 System —

Operation	Conventional	SH2 System
Cut Pipe and Weld on Starting Head	As Required	As Required
Wait-on-Cement Intermediate Casing	As Required	As Required
Release Hanger Running Tool and Wash Out	N/A	1 Hour
Install and Test Annular Seal	N/A	1 Hour
Break Connection and Lift BOP Stack	4 Hours	N/A
Install Slip Hanger and Rough Cut Casing	3 Hours	N/A
Final Cut Casing and Install Intermediate Spool	4 Hours	N/A
Nipple-Up BOP Stack	8 Hours	N/A
Test BOP Stack	As Required	As Required
Tubing Completion	As Required	As Required
Totals	**19 Hours**	**2 Hours**

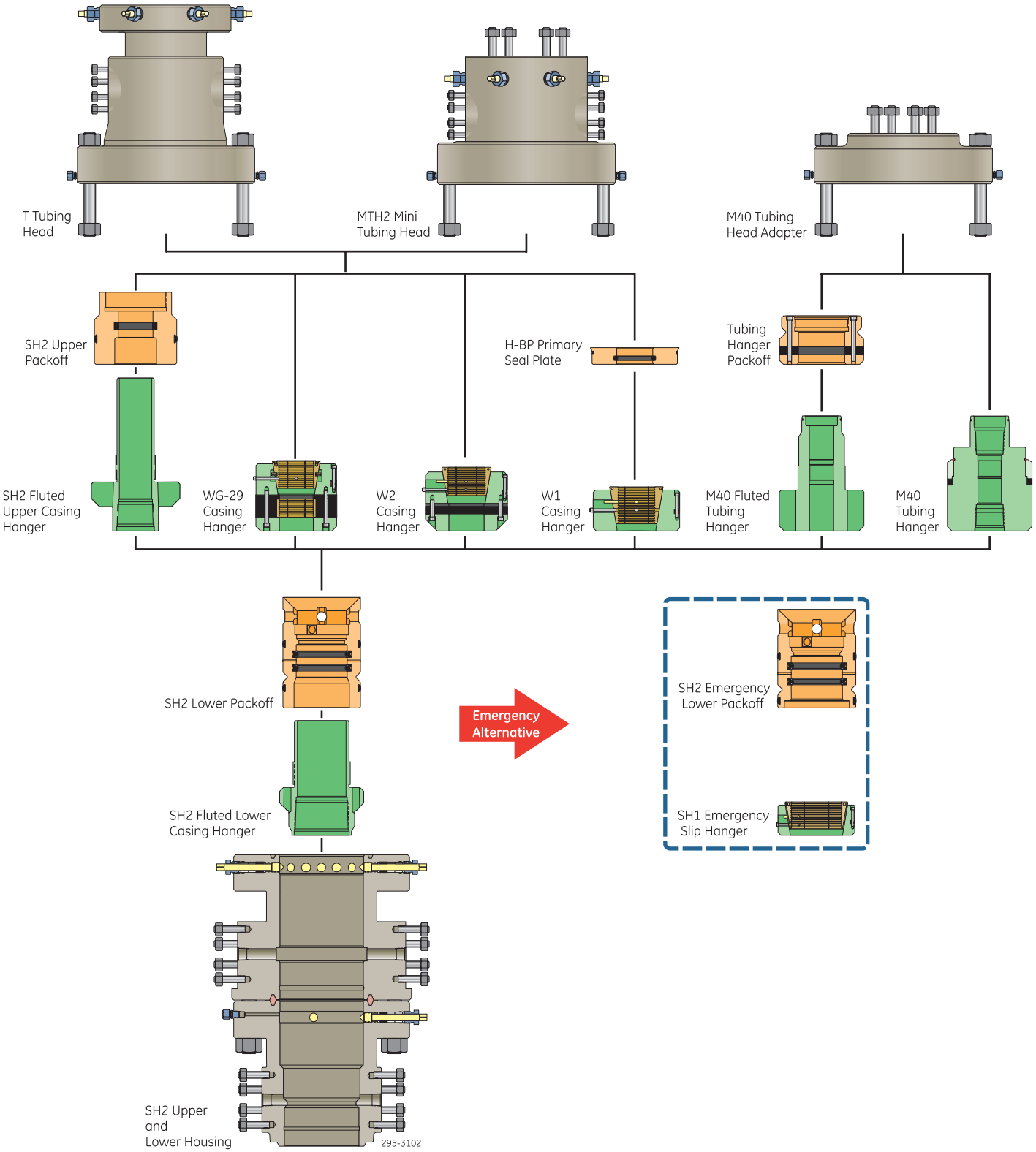
Time Saved (17 Hours) x Hourly Rig Rate = Money Saved

Availability —

Top Flange Size	Top Flange Pressure (psi)	Surface Casing	Casing for Lower Hanger	Casing or Tubing for Upper Hanger
11"	3,000/5,000/ 10,000	9-5/8"	7"	2-3/8" thru 4-1/2"
		10-3/4"	7-5/8"	2-3/8" thru 5-1/2"
13-5/8"	3,000/5,000/ 10,000	13-3/8"	7"	2-3/8" thru 4-1/2"
			7-5/8"	2-3/8" thru 5"
			8-5/8"	2-7/8" thru 5-1/2"
			9-5/8"	2-7/8" thru 7"
			10-3/4"	2-3/8" thru 7-5/8"
16-3/4"	5,000	16"	10-3/4"	2-3/8" thru 7-7/8"
			11-3/4"	2-3/8" thru 7-3/4"

SH2 Split Speedhead™ System

Equipment Options —



GE imagination at work

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